

KK xxxx TPC
KK xxxx
KK xxxx NPC

Key features:

Voltage rating: 1000/1900V
Test voltage: 5000V
Temperature range: -65°C / +180°C (TPC)
-65°C / +200°C (SPC)
-65°C / +200°C (NPC)

Flame retardant
Low smoke generation
RoHS Compliant
NEMA HP-4

Application:

FEP is a thin wall insulation and jacket material intended for applications up to 200°C. FEP has good electrical properties and excellent fire performance. It is the most flexible of the fluoropolymer insulations and is ideal for use in long lengths. FEP is primarily used in data and coaxial cables, as well as for medical applications and control/signal cables for high temperature environments. Designs according to NEMA HP-4.

Construction:

Conductor: KK xxxx TPC: Tin Plated Copper (TPC)
KK xxxx: Silver Plated Copper (SPC)
KK xxxx NPC: Nickel Plated Copper (NPC)
Insulation: Extruded FEP

Prefix (AAA):

560
563
808

Order reference (AAAccZZZZ):

Prefix: AAA (e.g. 560, see above) + colour code: cc (e.g. 00, see below) + size: ZZZZ (e.g. 3201, see table)

00	11	22	33	44	55	66	77	88	99	29	89	45
Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Grey	White	Pink	Clear	Yw/Gn

Description	Size		Conductor			Finished Wire			Electrical			Order reference
	AWG	CSA	stranding	resistance	wire Ø	core Ø	tolerance	weight	amps at 40°C			
		mm²		Ω/km				g/m	TPC	SPC	NPC	
KK 3201 ...	32	0,03	1 x 0,203	584,00	0,20	0,94	±0,10	1,8	2	3	3	AAAcc3201
KK 3207 ...	32	0,03	7 x 0,079	597,10	0,24	0,99	±0,10	1,9	2	3	3	AAAcc3207
KK 3219 ...	32	0,04	19 x 0,051	554,50	0,24	0,99	±0,10	1,9	2	3	3	AAAcc3219
KK 3001 ...	30	0,05	1 x 0,254	374,00	0,25	1,02	+0,10 -0,11	2,1	3	4	4	AAAcc3001
KK 3007 ...	30	0,06	7 x 0,102	354,30	0,30	1,07	±0,10	2,3	3	4	4	AAAcc3007
KK 3019 ...	30	0,06	19 x 0,064	347,80	0,30	1,07	±0,10	2,3	3	4	4	AAAcc3019
KK 2801 ...	28	0,08	1 x 0,320	232,30	0,32	1,09	±0,10	2,5	4	5	5	AAAcc2801
KK 2807 ...	28	0,09	7 x 0,127	223,80	0,38	1,14	±0,10	2,7	4	5	5	AAAcc2807
KK 2819 ...	28	0,09	19 x 0,079	222,10	0,37	1,14	±0,10	2,7	4	5	5	AAAcc2819
KK 2601 ...	26	0,13	1 x 0,404	146,00	0,40	1,17	±0,10	3,2	6	7	7	AAAcc2601
KK 2607 ...	26	0,14	7 x 0,160	139,80	0,48	1,24	+0,11 -0,10	3,5	6	7	7	AAAcc2607
KK 2619 ...	26	0,15	19 x 0,102	131,60	0,48	1,24	+0,11 -0,10	3,6	6	7	7	AAAcc2619
KK 2401 ...	24	0,20	1 x 0,511	89,20	0,51	1,27	±0,10	4,1	8	10	10	AAAcc2401
KK 2407 ...	24	0,23	7 x 0,203	86,00	0,60	1,37	±0,10	4,6	8	10	10	AAAcc2407
KK 2419 ...	24	0,24	19 x 0,127	83,30	0,60	1,37	±0,10	4,7	8	10	10	AAAcc2419
KK 2201 ...	22	0,32	1 x 0,643	56,40	0,64	1,41	±0,11	5,6	12	14	14	AAAcc2201
KK 2207 ...	22	0,35	7 x 0,254	54,80	0,76	1,52	+0,11 -0,10	6,1	12	14	14	AAAcc2207
KK 2219 ...	22	0,38	19 x 0,160	52,20	0,76	1,52	+0,11 -0,10	6,4	12	14	14	AAAcc2219
KK 2001 ...	20	0,52	1 x 0,813	35,10	0,81	1,57	+0,11 -0,10	7,7	16	19	19	AAAcc2001
KK 2007 ...	20	0,56	7 x 0,320	34,10	0,96	1,73	±0,10	8,5	16	19	19	AAAcc2007
KK 2019 ...	20	0,62	19 x 0,203	32,00	0,96	1,73	±0,10	9,0	16	19	19	AAAcc2019
KK 1801 ...	18	0,82	1 x 1,024	22,20	1,02	1,80	+0,13 -0,12	11,2	22	27	27	AAAcc1801
KK 1807 ...	18	0,90	7 x 0,404	21,50	1,21	2,01	+0,12 -0,13	12,6	22	27	27	AAAcc1807
KK 1819 ...	18	0,96	19 x 0,254	20,40	1,20	2,01	+0,12 -0,13	13,0	22	27	27	AAAcc1819
KK 1601 ...	16	1,31	1 x 1,290	14,00	1,29	2,11	±0,15	16,3	27	32	32	AAAcc1601
KK 1619 ...	16	1,23	19 x 0,287	15,80	1,36	2,26	±0,15	16,5	27	32	32	AAAcc1619
KK 1419 ...	14	1,94	19 x 0,361	10,00	1,71	2,69	+0,21 -0,20	24,7	36	43	43	AAAcc1419
KK 1219 ...	12	3,08	19 x 0,455	6,30	2,15	3,18	+0,20 -0,21	36,8	50	59	59	AAAcc1219
KK 1237 ...	12	2,98	37 x 0,320	6,59	2,24	3,12	+0,21 -0,20	37,0	50	59	59	AAAcc1237
KK 1037 ...	10	4,74	37 x 0,404	4,13	2,82	3,68	+0,21 -0,20	54,1	68	81	81	AAAcc1037
KK 8133 ...	8	8,61	133 x 0,287	2,30	4,10	5,31	+0,15 -0,16	98,1	109	129	129	AAAcc8133
KK 6133 ...	6	12,59	133 x 0,361	1,46	5,13	7,45	+0,20 -0,19	174,0	149	177	177	AAAcc6133
KK 4133 ...	4	21,59	133 x 0,455	0,92	6,75	9,12	+0,25 -0,26	267,0	-	206	206	AAAcc4133
KK 2665 ...	2	33,70	665 x 0,254	0,60	8,51	10,29	+0,25 -0,26	376,0	-	-	-	AAAcc2665
KK 1817 ...	1	41,40	817 x 0,254	0,49	9,60	12,32	±0,25	-	-	-	-	AAAcc1817

Note: resistance values are for TPC. For accurate SPC and NPC values see Custom Design: Conductors: Resistance values: Table 3

De-rating Factors for Current Rating														
K xxxx TPC	10	20	30	40	50	60	70	80	90	100	110	120	130	140
Temperature de-rating (°C)	1.16	1.11	1.06	1.00	0.94	0.88	0.82	0.76	0.69	0.62	0.54	0.45	0.35	0.23
K xxxx & K xxxx NPC	20	40	60	80	100	120	140	160	180	-	-	-	-	-
Temperature de-rating (°C)	1.08	1.00	0.92	0.84	0.75	0.65	0.55	0.42	0.28	-	-	-	-	-
Multicore de-rating factor	2	3	4	6	8	10	12	16	20	24	28	32	36	40
	1.00	0.88	0.80	0.69	0.62	0.59	0.55	0.51	0.48	0.43	0.41	0.39	0.38	0.36

Note: All dimensions in mm and ±4% unless stated Date: 2011-01-27 Created: CJV Approved: TN Reference: EQ_KK_11
Data provided indicates nominal values unless stated otherwise and is only valid for reference purposes at the time of publication and is subject to change without prior notice.